

WHAT IS CLAIMED IS:

1. A dispensing device mounted in a toilet tank, comprising:
a dispenser for storing liquid cleaner, the dispenser comprising an upper channel for refilling the liquid cleaner and a bottom opening;
5 a connecting cup extended downward from the dispenser, the connecting cup having a bottom spaced from the bottom opening by a predetermined distance and including at least one aperture on the bottom thereof; and
a float in the connecting cup opposite the bottom opening.
2. The dispensing device of claim 1, further comprising a first cover fitted on
10 the upper channel and at least one vent hole in the first cover.
3. The dispensing device of claim 1, further comprising a rail longitudinally disposed on an inner wall of the dispenser, an inverted U-shaped hoist rope slidable on the rail, an upper depressible spring detent on an outer surface of the dispenser facing the rail and being coupled to an inner end of the hoist rope, and
15 a holed member having a plurality of apertures along the rail, each of the apertures being adapted to lock the depressible spring detent.
4. The dispensing device of claim 1, wherein the float comprises a top plug facing the bottom opening.
5. The dispensing device of claim 1, wherein the connecting cup further
20 comprises a cylindrical wall around and proximate the float for defining an up-and-down movement of the float therein.
6. The dispensing device of claim 1, further comprising an arcuate section at a bottom of the dispenser, the arcuate section having a lowest point at the bottom opening.
- 25 7. The dispensing device of claim 1, further comprising a weight coupled to an outer end of the hoist rope, the weight being slidable up-and-down along an outer surface of the toilet tank.

8. The dispensing device of claim 1, wherein the dispenser is enclosed dispenser, and further comprising a flexible tube having one end coupled to dispenser and a liquid cleaner container outside the toilet tank, the container being coupled to the other end of the flexible tube, the container including a vent
5 hole.
9. The dispensing device of claim 2, wherein one end of the flexible tube is coupled to the first cover, and further comprising a liquid cleaner container outside the toilet tank, the container being coupled to the other end of the flexible tube and including a vent hole.
- 10 10. The dispensing device of claim 9, wherein the container further comprises an open casing, a top cover for enclosing the open casing opposite the toilet tank, and a side opening bordered a bottom, the side opening being coupled to the flexible tube.
- 15 11. The dispensing device of claim 1, wherein the connecting cup further comprises an inner peripheral connecting member and the toilet tank comprises a mating outer peripheral connecting member at a lower portion thereof, the outer peripheral connecting member being adapted to matingly couple to the inner peripheral connecting member.